David Evans

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(https://github.com/Dave-Evans)

EDUCATION

University of Wisconsin-Madison

Master of Science, Soil Science	August 2013
Bachelor of Science, Soil Science	May 2011

OBJECTIVE

I am a data engineer who is looking for opportunities to apply my current toolset as well as learn new ways of thinking. For me, there is nothing like the thrill of solving a new problem and of figuring out difficult issues. I have become adept at finding ways to solve business problems while balancing the perfect with the good. While I love developing new solutions, I love getting absorbed in finding ways to make existing processes more efficient.

SKILL SET

- Data manipulation, engineering, and munging
- Application development
- GIS theory and practice
- Web development
- Process Automation

Software proficiencies and familiarities:
- R and Python
- SQL
- AWS cloud services
- ArcGIS, QGIS, and SAGA-GIS
- C# and VB.NET
- JavaScript
- Git version control software
- LaTeX and Markdown
- Bash and CMD

RELEVANT EXPERIENCE

Statistical Research Modeler – American Family Insurance   **July 2016 – Present**

- Data pipeline development to support company-wide modeling projects
- Develop agile reporting workflow to distribute customer information to agents
- Facilitate automation system for mundane tasks
- Develop version control practice on data science team

GIS Analyst and Developer – Legislative Technology Services Bureau   **May 2015 – June 2016**

- Web site development and maintenance
- Developed desktop applications using ArcObjects for .NET
- Assisted in ArcGIS Server maintenance and updates

IS Data Services – Department of Natural Resources   **July 2014 – May 2015**

- Assemble and organize spatial and non-spatial data for large watershed modeling project.
- Carry out statistical analysis for the regionalization of hydrologic model parameters.
- Assist with the development of a spatial analysis tool for predicting erosion and improving water quality.

Data Coordinator – UW-Madison Soil Science, F.D. Hole Soils Lab   **August 2013 – June 2014**

- Coordinate the progress and maintenance of map display and development for Wisconsin branch of the ISEE Project.
- Develop maps of landscapes and soil properties for educational purposes.
- Organize and maintain database of geospatial information.

Research Assistant – UW-Madison Soil Science, F.D. Hole Soils Lab   **Sept 2011 – June 2013**

- Used digital soil mapping techniques to produce quantitative maps of soil properties.
- Described and classified soils in the field according to US Soil Taxonomy.
- Investigated soil-landscape relationships through statistical and conceptual models.

SELECTED PRESENTATIONS & PUBLICATIONS

Ruesch, A. S., A. Mynsberge, and D. M. Evans. "Introduction to Python in ArcGIS." 10 February, 2016. A workshop given at the Wisconsin Land Information Association in Elkhart Lake, WI.

Evans, D. M. and A. E. Hartemink. "Digital soil mapping of a red clay subsoil covered by loess." 2014. Geoderma 230-231, 296-304.

Evans, D. M., K. Rudersdorf, G. Obear, S. Griffith, M.R. Naber, and P. Barak. "Saline and Sodic Soils in Wisconsin: The Sad Story of the Costco Infiltration Pond." 12 September, 2012. Presentation given to USGS Water Resources Meeting, Madison, WI.